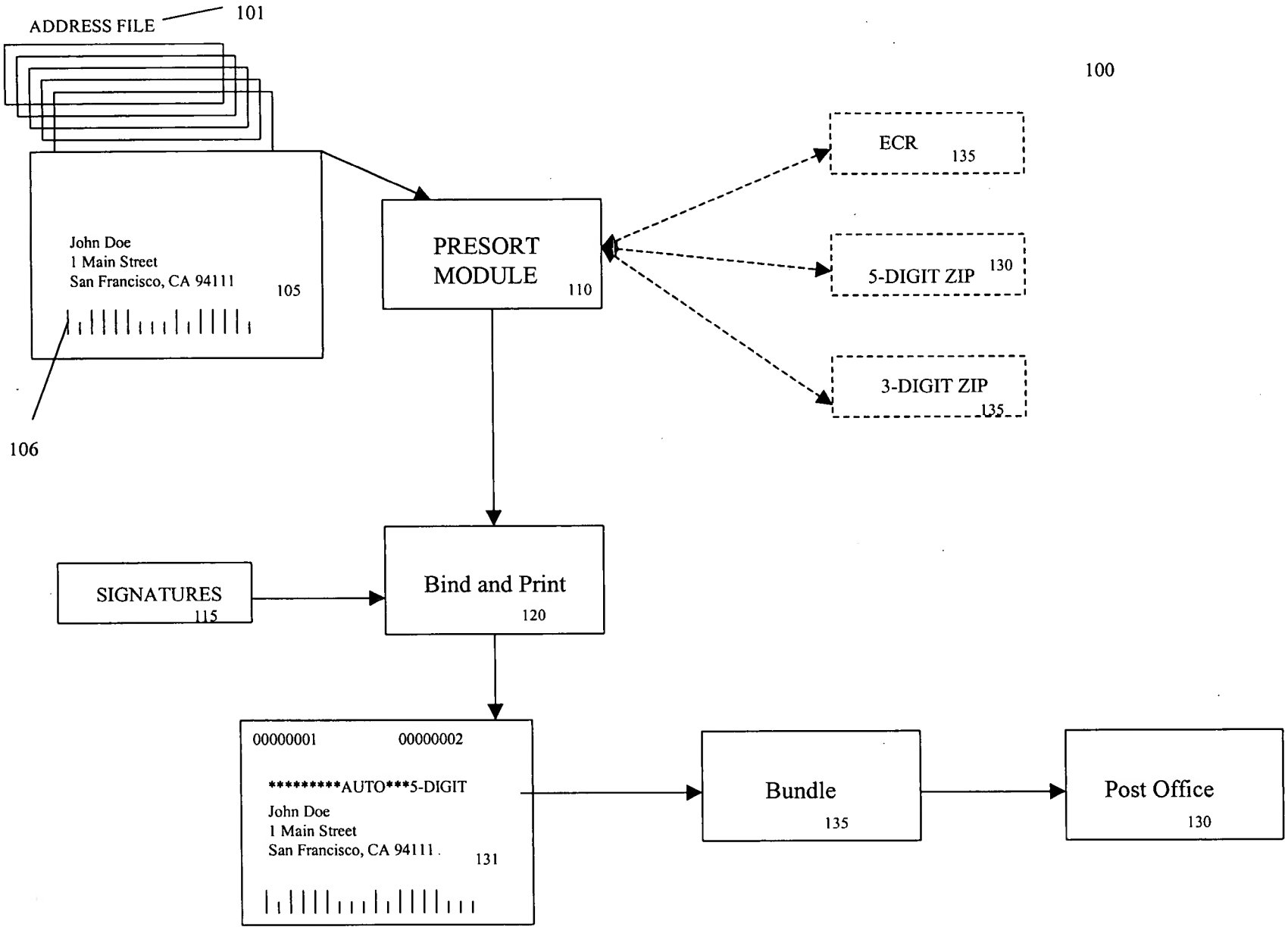
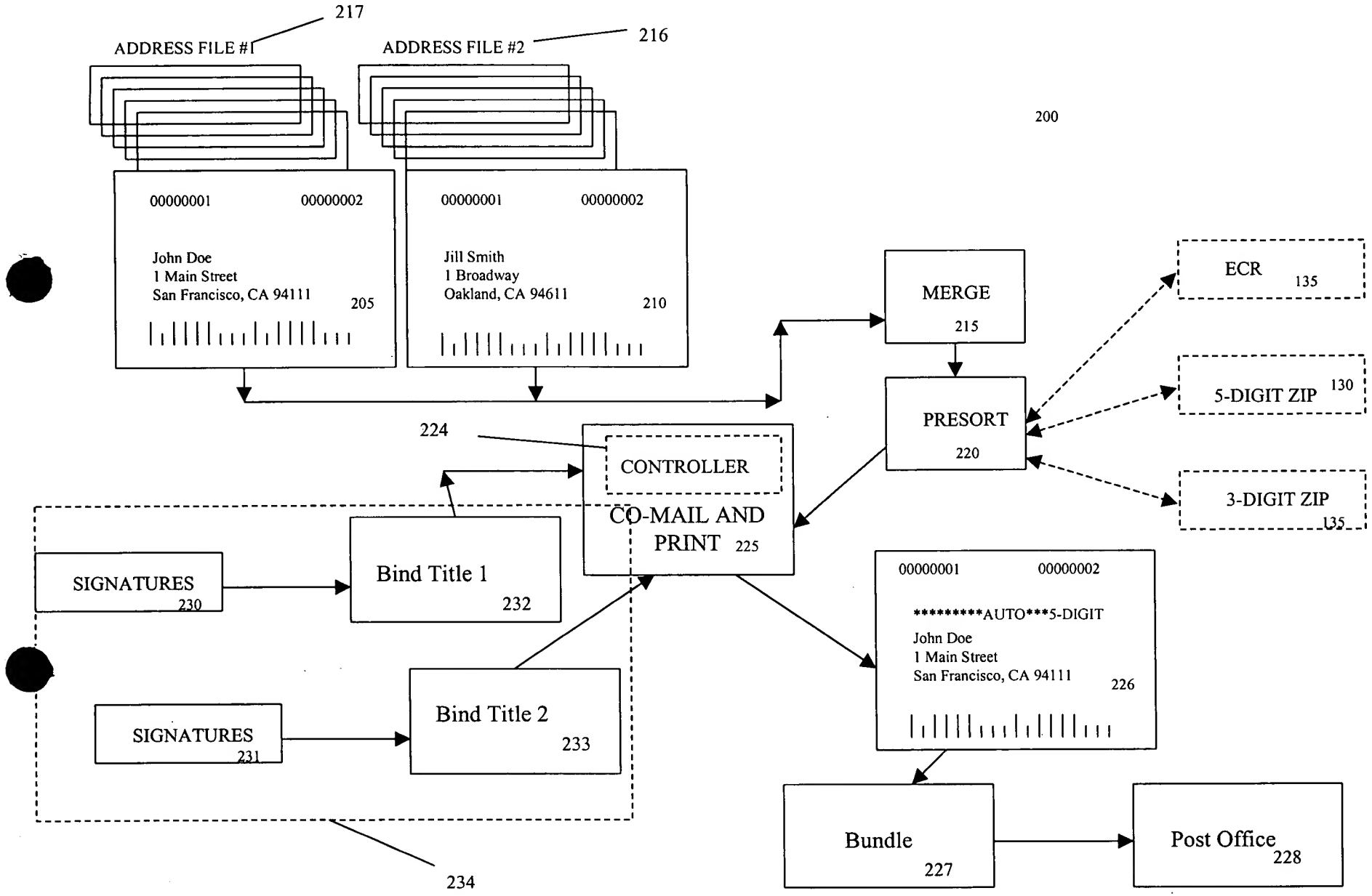


Prior Art FIG. 1

ocr_segment_type="boilerplate"



Prior Art FIG. 2

09511095 - 062202

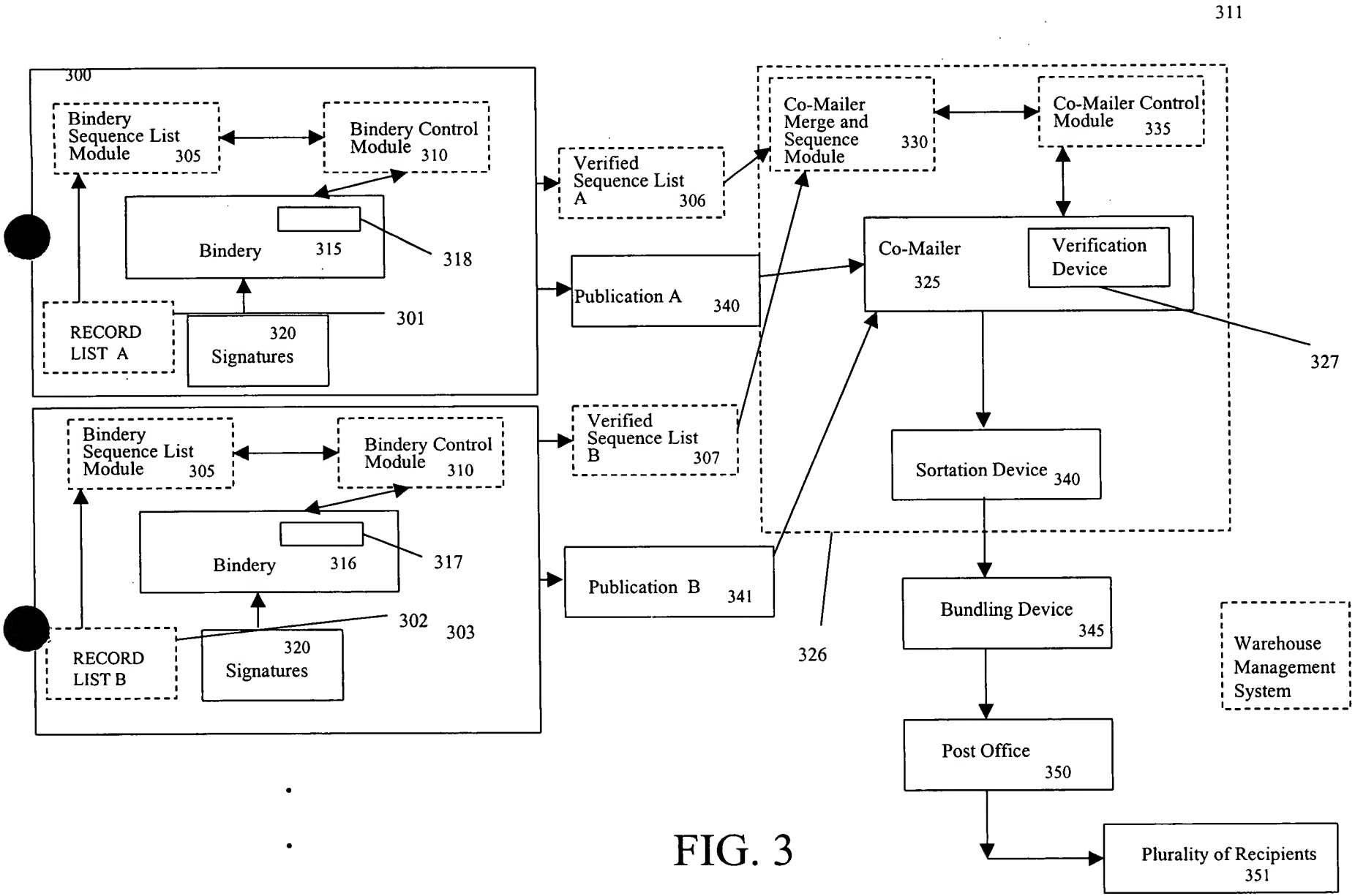
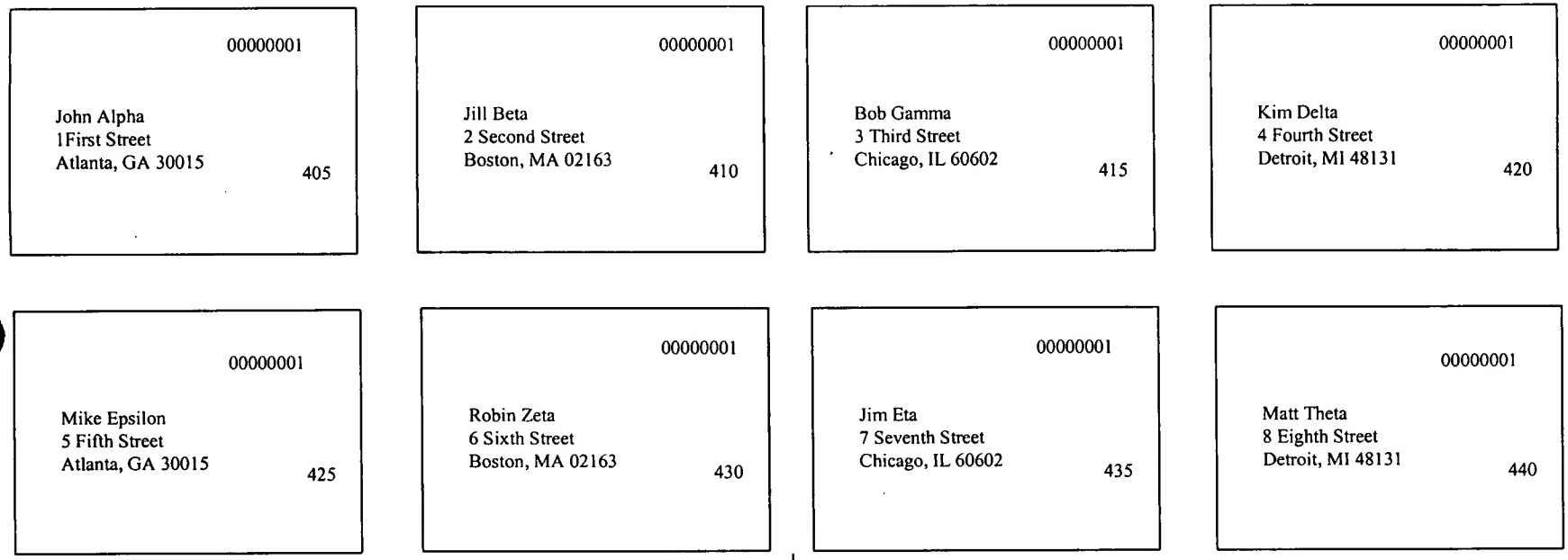

311
300
Bindery Sequence List Module 305
Bindery Control Module 310
Bindery 315
318
RECORD LIST A
320 Signatures
301
Verified Sequence List A 306
Publication A 340
Bindery Sequence List Module 305
Bindery Control Module 310
Bindery 316
317
RECORD LIST B
320 Signatures
302
303
Verified Sequence List B 307
Publication B 341
326
Co-Mailer Merge and Sequence Module 330
Co-Mailer Control Module 335
Co-Mailer 325
Verification Device
327
Sortation Device 340
Bundling Device 345
Warehouse Management System
Post Office 350
Plurality of Recipients 351

FIG. 3

N



445

RECORD LIST

Record #	Name	Street #	Street	City	Zip Code	Customer Info.	CR	Walk Seq.	Title	SC	QEL	Demo.
1.	Alpha, John	1	First Street	Atlanta	30015	00000001	001	WS20	A	0000001	X x Y x H or V	M
2.	Beta, Jill	2	Second Street	Boston	02163	00000003	002	WS10	A	0000001	X x Y x H or V	F
3.	Gamma, Bob	3	Third Street	Chicago	60602	00000005	003	WS21	A	0000001	X x Y x H or V	M
4.	Delta, Kim	4	Fourth Street	Detriot	48131	00000007	004	WS136	A	0000001	X x Y x H or V	F
5.	Epsilon, Mike	5	Fifth Street	Atlanta	30015	00000009	001	WS100	A	0000001	X x Y x H or V	M
6.	Zeta, Robin	6	Sixth Street	Boston	02163	00000011	002	WS72	A	0000001	X x Y x H or V	F
7.	Eta, Jim	7	Seventh Street	Chicago	60602	00000013	003	WS86	A	0000001	X x Y x H or V	M
8.	Theta, Matt	8	Eighth Street	Detroit	48131	00000015	005	WS62	A	0000001	X x Y x H or V	M

TO FIG. 5

FIG. 4

FROM FIG. 4

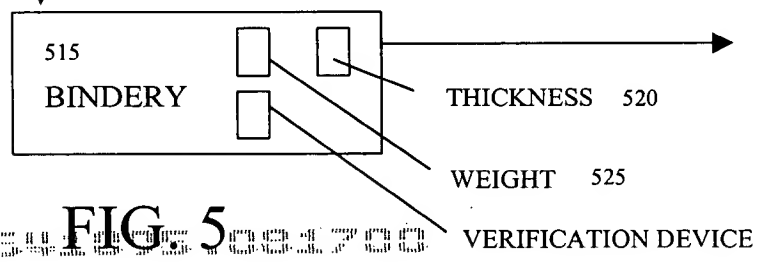
BINDERY SEQEUENCE LIST MODULE 505

1. Sequence by zip code beginning with lowest zip code
2. Within each zip code, sequence by carrier route
3. Within each carrier route, sequence by walk sequence with lower walk sequence first

510

SEQUENCE LIST

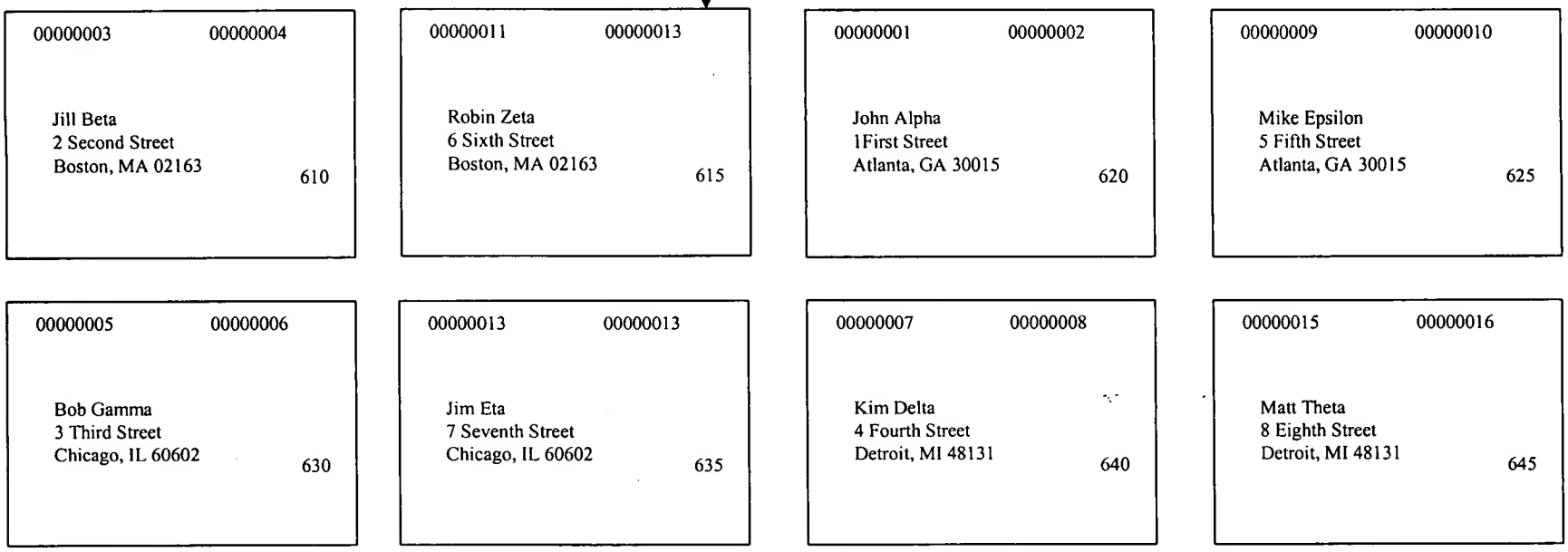
Seq #	Record #	Name	Street #	Street	City	Zip Code	Customer Info.	CR	WS	Title	SC	QEL	Demo.
1.	2.	Beta, Jill	2	Second Street	Boston	02163	00000003	002	WS10	A	0000001	X x Y x H or V	F
2.	6.	Zeta, Robin	6	Sixth Street	Boston	02163	00000011	002	WS22	A	0000001	X x Y x H or V	F
3.	1.	Alpha, John	1	First Street	Atlanta	30015	00000001	001	WS20	A	0000001	X x Y x H or V	M
4.	5.	Epsilon, Mike	5	Fifth Street	Atlanta	30015	00000009	001	WS35	A	0000001	X x Y x H or V	M
5.	4.	Delta, Kim	4	Fourth Street	Detriot	48131	00000007	004	WS136	A	0000001	X x Y x H or V	F
6.	8.	Theta, Matt	8	Eighth Street	Detroit	48131	00000015	005	WS62	A	0000001	X x Y x H or V	M
7.	3.	Gamma, Bob	3	Third Street	Chicago	60602	00000005	003	WS21	A	0000001	X x Y x H or V	M
8.	7.	Eta, Jim	7	Seventh Street	Chicago	60602	00000013	003	WS86	A	0000001	X x Y x H or V	M



TO FIG. 6

FIG. 5

FROM FIG. 5



VERIFIED SEQUENCE LIST A

605

Seq #	Rec #	Name	Street #	Street	City	Zip Code	CI.	CR	WS	Title	SC	OEL	Wt	Thick	Bundle	Demo
1.	2.	Beta, Jill	2	Second Street	Boston	02163	00000003	002	WS10	A	0000001	XxYxHxv	1.5	.19	1	F
2.	6.	Zeta, Robin	6	Sixth Street	Boston	02163	00000011	002	WS22	A	0000001	XxYxHxv	1.5	.19	1	F
3.	1.	Alpha, John	1	First Street	Atlanta	30015	00000001	001	WS20	A	0000001	XxYxHxv	1.5	.19	1	M
4.	5.	Epsilon, Mike	5	Fifth Street	Atlanta	30015	00000009	001	WS35	A	0000001	XxYxHxv	1.5	.19	1	M
BINDERY ERROR FOR SEQUENCE NO. 5																
5.	8.	Theta, Matt	8	Eighth Street	Detroit	48131	00000015	005	WS62	A	0000001	XxYxHxv	2.0	.25	1	M
6.	3.	Gamma, Bob	3	Third Street	Chicago	60602	00000005	003	WS21	A	0000001	XxYxHxv	1.5	.19	1	M
7.	7.	Eta, Jim	7	Seventh Street	Chicago	60602	00000013	003	WS86	A	0000001	XxYxHxv	1.5	.19	1	M
MIXED MAIL																
1.	4.	Delta, Kim	4	Fourth Street	Detriot	48131	00000007	004	WS136	A	0000001	XxYxHxv	1.5	.19	1	F

FIG. 6

FROM FIG. 6

VERIFIED SEQUENCE LIST A

605

Seq #	Rec #	Name	Street #	Street	City	Zip Code	CI.	CR	WS	Title	SC	OEL	Wt	Thick	Bundle	Demo.
1.	2.	Beta, Jill	2	Second Street	Boston	02163	00000003	002	WS10	A	0000001	XxYxHorV	1.5	.19	1	F
2.	6.	Zeta, Robin	6	Sixth Street	Boston	02163	00000011	002	WS22	A	0000001	XxYxHorV	1.5	.19	1	F
[redacted]	1.	Alpha, John	1	First Street	Atlanta	30015	00000001	001	WS20	A	0000001	XxYxHorV	1.5	.19	1	M
[redacted]	5.	Epsilon, Mike	5	Fifth Street	Atlanta	30015	00000009	001	WS35	A	0000001	XxYxHorV	1.5	.19	1	M
BINDERY ERROR FOR SEQUENCE NO. 5																
5.	8.	Theta, Matt	8	Eighth Street	Detroit	48131	00000015	005	WS62	A	0000001	XxYxHorV	2.0	.25	1	M
6.	3.	Gamma, Bob	3	Third Street	Chicago	60602	00000005	003	WS21	A	0000001	XxYxHorV	1.5	.19	1	M
7.	7.	Eta, Jim	7	Seventh Street	Chicago	60602	00000013	003	WS86	A	0000001	XxYxHorV	1.5	.19	1	M
MIXED MAIL																
1.	4.	Delta, Kim	4	Fourth Street	Detriot	48131	00000007	004	WS136	A	0000001	XxYxHorV	1.5	.19	1	F

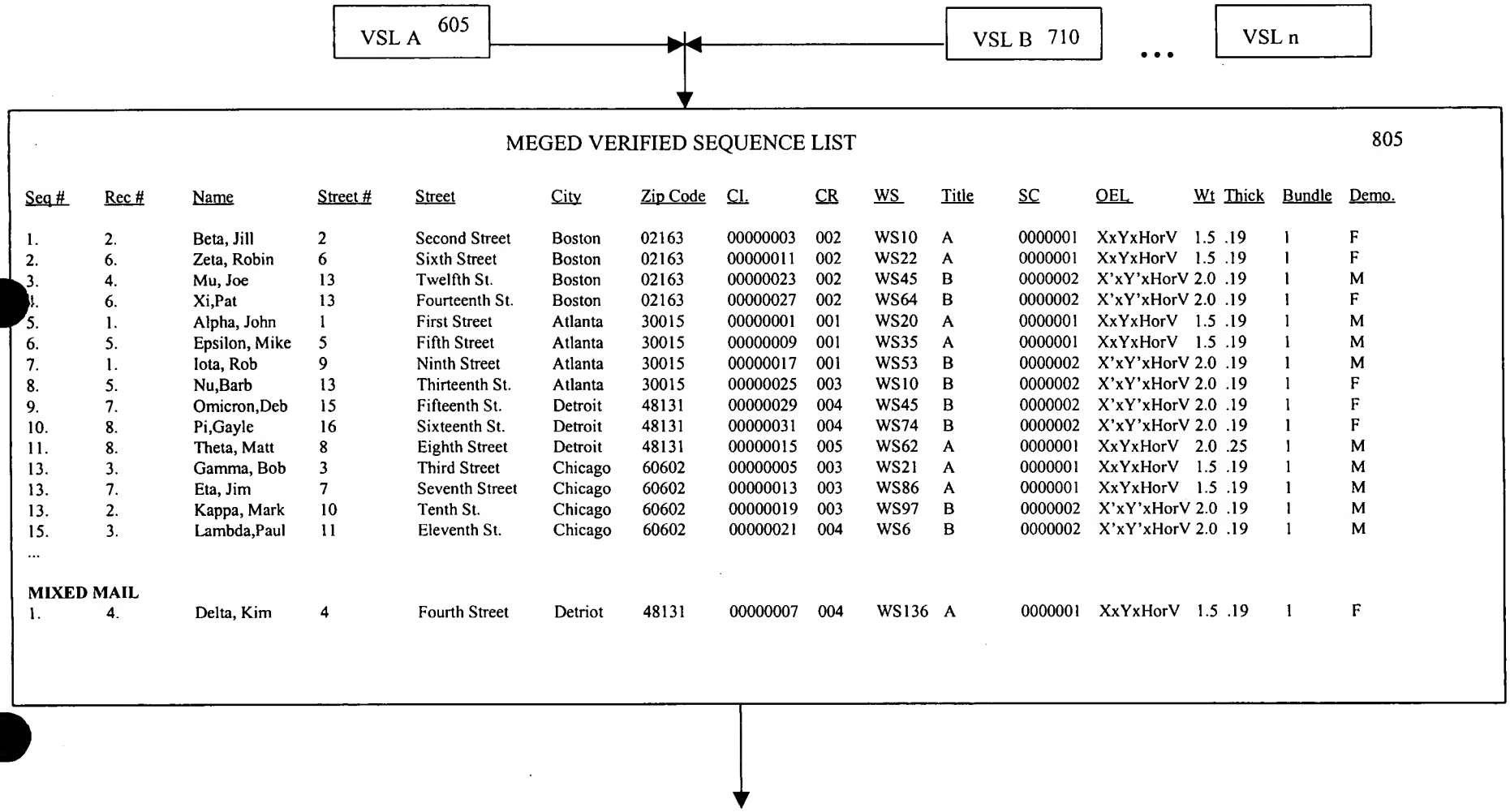
VERIFIED SEQUENCE LIST B

710

Seq #	Rec #	Name	Street #	Street	City	Zip Code	CI.	CR	WS.	Title	SC	OEL	Wt	Thick	Bundle	Demo.
1.	6.	Xi,Pat	13	Fourteenth St.	Boston	02163	00000027	002	WS64	B	0000002	X'xY'xHorV	2.0	.19	1	F
2.	4.	Mu, Joe	13	Twelfth St.	Boston	02163	00000023	002	WS45	B	0000002	X'xY'xHorV	2.0	.19	1	M
[redacted]	5.	Nu,Barb	13	Thirteenth St.	Atlanta	30015	00000025	003	WS10	B	0000002	X'xY'xHorV	2.0	.19	1	F
[redacted]	1.	Iota, Rob	9	Ninth Street	Atlanta	30015	00000017	001	WS53	B	0000002	X'xY'xHorV	2.0	.19	1	M
[redacted]	7.	Omicron,Deb	15	Fifteenth St.	Detroit	48131	00000029	004	WS45	B	0000002	X'xY'xHorV	2.0	.19	1	F
6.	8.	Pi,Gayle	16	Sixteenth St.	Detroit	48131	00000031	004	WS74	B	0000002	X'xY'xHorV	2.0	.19	1	F
7.	2.	Kappa, Mark	10	Tenth St.	Chicago	60602	00000019	003	WS97	B	0000002	X'xY'xHorV	2.0	.19	1	M
8.	3.	Lambda,Paul	11	Eleventh St.	Chicago	60602	00000021	004	WS6	B	0000002	X'xY'xHorV	2.0	.19	1	M

TO FIG. 8

FIG. 7

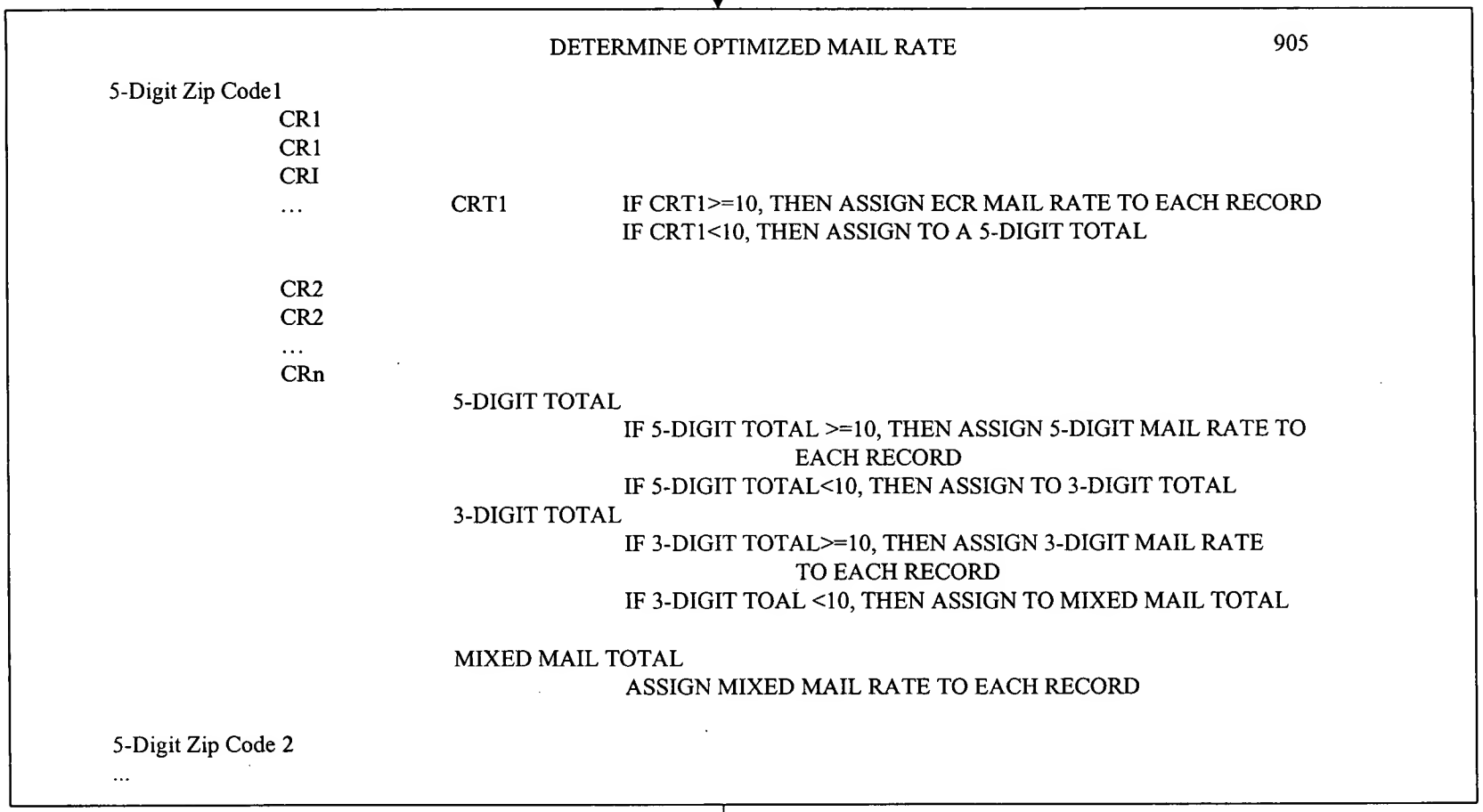


Seq #	Rec #	Name	Street #	Street	City	Zip Code	CI.	CR	WS	Title	SC	OEL	Wt	Thick	Bundle	Demo.
1.	2.	Beta, Jill	2	Second Street	Boston	02163	00000003	002	WS10	A	0000001	XxYxHorV	1.5	.19	1	F
2.	6.	Zeta, Robin	6	Sixth Street	Boston	02163	00000011	002	WS22	A	0000001	XxYxHorV	1.5	.19	1	F
3.	4.	Mu, Joe	13	Twelfth St.	Boston	02163	00000023	002	WS45	B	0000002	X'xY'xHorV	2.0	.19	1	M
4.	6.	Xi,Pat	13	Fourteenth St.	Boston	02163	00000027	002	WS64	B	0000002	X'xY'xHorV	2.0	.19	1	F
5.	1.	Alpha, John	1	First Street	Atlanta	30015	00000001	001	WS20	A	0000001	XxYxHorV	1.5	.19	1	M
6.	5.	Epsilon, Mike	5	Fifth Street	Atlanta	30015	00000009	001	WS35	A	0000001	XxYxHorV	1.5	.19	1	M
7.	1.	Iota, Rob	9	Ninth Street	Atlanta	30015	00000017	001	WS53	B	0000002	X'xY'xHorV	2.0	.19	1	M
8.	5.	Nu,Barb	13	Thirteenth St.	Atlanta	30015	00000025	003	WS10	B	0000002	X'xY'xHorV	2.0	.19	1	F
9.	7.	Omicron,Deb	15	Fifteenth St.	Detroit	48131	00000029	004	WS45	B	0000002	X'xY'xHorV	2.0	.19	1	F
10.	8.	Pi,Gayle	16	Sixteenth St.	Detroit	48131	00000031	004	WS74	B	0000002	X'xY'xHorV	2.0	.19	1	F
11.	8.	Theta, Matt	8	Eighth Street	Detroit	48131	00000015	005	WS62	A	0000001	XxYxHorV	2.0	.25	1	M
13.	3.	Gamma, Bob	3	Third Street	Chicago	60602	00000005	003	WS21	A	0000001	XxYxHorV	1.5	.19	1	M
13.	7.	Eta, Jim	7	Seventh Street	Chicago	60602	00000013	003	WS86	A	0000001	XxYxHorV	1.5	.19	1	M
13.	2.	Kappa, Mark	10	Tenth St.	Chicago	60602	00000019	003	WS97	B	0000002	X'xY'xHorV	2.0	.19	1	M
15.	3.	Lambda,Paul	11	Eleventh St.	Chicago	60602	00000021	004	WS6	B	0000002	X'xY'xHorV	2.0	.19	1	M
...																
MIXED MAIL																
1.	4.	Delta, Kim	4	Fourth Street	Detriot	48131	00000007	004	WS136	A	0000001	XxYxHorV	1.5	.19	1	F

TO FIG .9

FIG. 8

FROM FIG. 8



TO FIG. 10

FIG. 9

FROM FIG. 9

OPTIMIZED MERGED VERIFIED SEQUENCE LIST 1005

Seq #	Rec #	Name	Street #	Street	City	Zip Code	CI.	CR	WS	Title	SC	QEL	Wt	Thick	Bundle	Demo.	MR
1.	2.	Beta, Jill	2	Second Street	Boston	02163	00000003	002	WS10	A	0000001	XxYxHorV	1.5	.19	1	F	ECR
2.	6.	Zeta, Robin	6	Sixth Street	Boston	02163	00000011	002	WS22	A	0000001	XxYxHorV	1.5	.19	1	F	ECR
3.	4.	Mu, Joe	13	Twelfth St.	Boston	02163	00000023	002	WS45	B	0000002	X'xY'xHorV	2.0	.19	1	M	ECR
4.	6.	Xi,Pat	13	Fourteenth St.	Boston	02163	00000027	002	WS64	B	0000002	X'xY'xHorV	2.0	.19	1	F	5D
5.	1.	Alpha, John	1	First Street	Atlanta	30015	00000001	001	WS20	A	0000001	XxYxHorV	1.5	.19	1	M	3D
6.	5.	Epsilon, Mike	5	Fifth Street	Atlanta	30015	00000009	001	WS35	A	0000001	XxYxHorV	1.5	.19	1	M	ECR
7.	1.	Iota, Rob	9	Ninth Street	Atlanta	30015	00000017	001	WS53	B	0000002	X'xY'xHorV	2.0	.19	1	M	ECR
8.	5.	Nu,Barb	13	Thirteenth St.	Atlanta	30015	00000025	003	WS10	B	0000002	X'xY'xHorV	2.0	.19	1	F	5D
9.	7.	Omicron,Deb	15	Fifteenth St.	Detroit	48131	00000029	004	WS45	B	0000002	X'xY'xHorV	2.0	.19	1	F	5D
10.	8.	Pi,Gayle	16	Sixteenth St.	Detroit	48131	00000031	004	WS74	B	0000002	X'xY'xHorV	2.0	.19	1	F	5D
11.	8.	Theta, Matt	8	Eighth Street	Detroit	48131	00000015	005	WS62	A	0000001	XxYxHorV	2.0	.25	1	M	5D
13.	3.	Gamma, Bob	3	Third Street	Chicago	60602	00000005	003	WS21	A	0000001	XxYxHorV	1.5	.19	1	M	3D
13.	7.	Eta, Jim	7	Seventh Street	Chicago	60602	00000013	003	WS86	A	0000001	XxYxHorV	1.5	.19	1	M	ECR
13.	2.	Kappa, Mark	10	Tenth St.	Chicago	60602	00000019	003	WS97	B	0000002	X'xY'xHorV	2.0	.19	1	M	ECR
15.	3.	Lambda,Paul	11	Eleventh St.	Chicago	60602	00000021	004	WS6	B	0000002	X'xY'xHorV	2.0	.19	1	M	ECR
...																	
MIXED MAIL																	
1.	4.	Delta, Kim	4	Fourth Street	Detriot	48131	00000007	004	WS136	A	0000001	XxYxHorV	1.5	.19	1	F	REG.

Co-Mailer

Sortation Device

Bundling Device → Post Office

FIG. 10

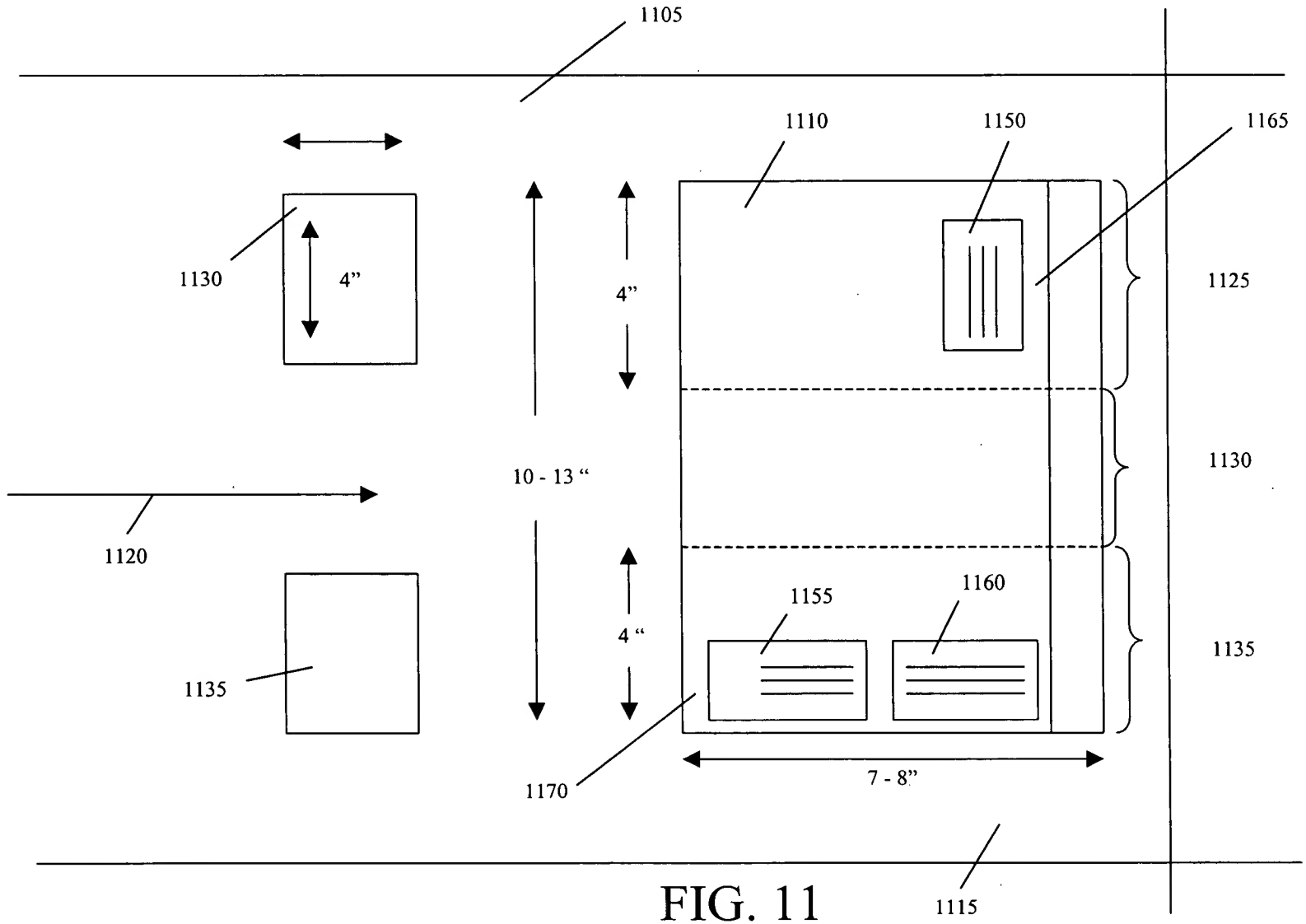

1105
1110
1150
1165
1130
4"
4"
1125
1130
10 - 13 "
1120
1135
4 "
1155
1160
1135
1170
7 - 8"
1115

FIG. 11

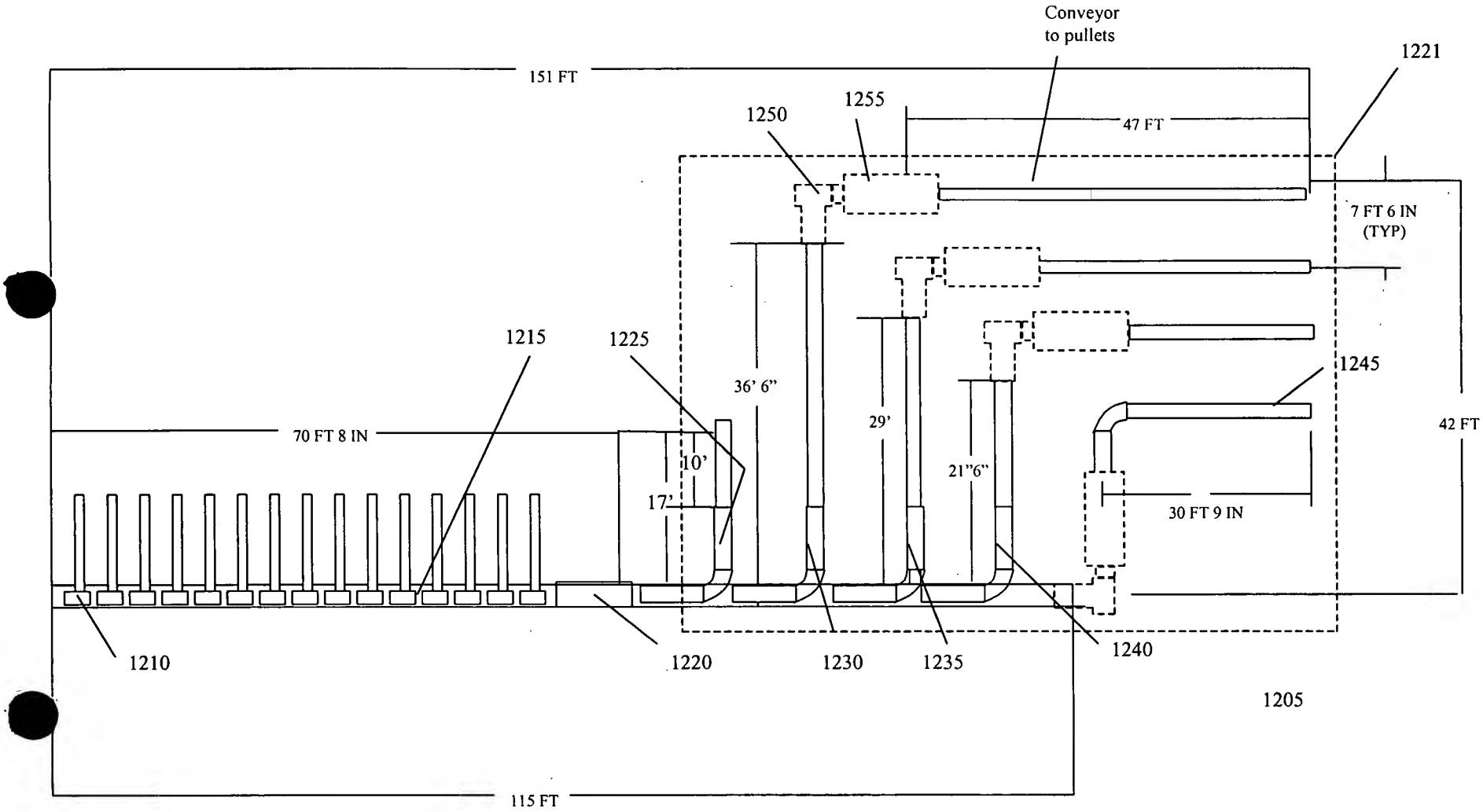


FIG. 12

09814095 - 092308

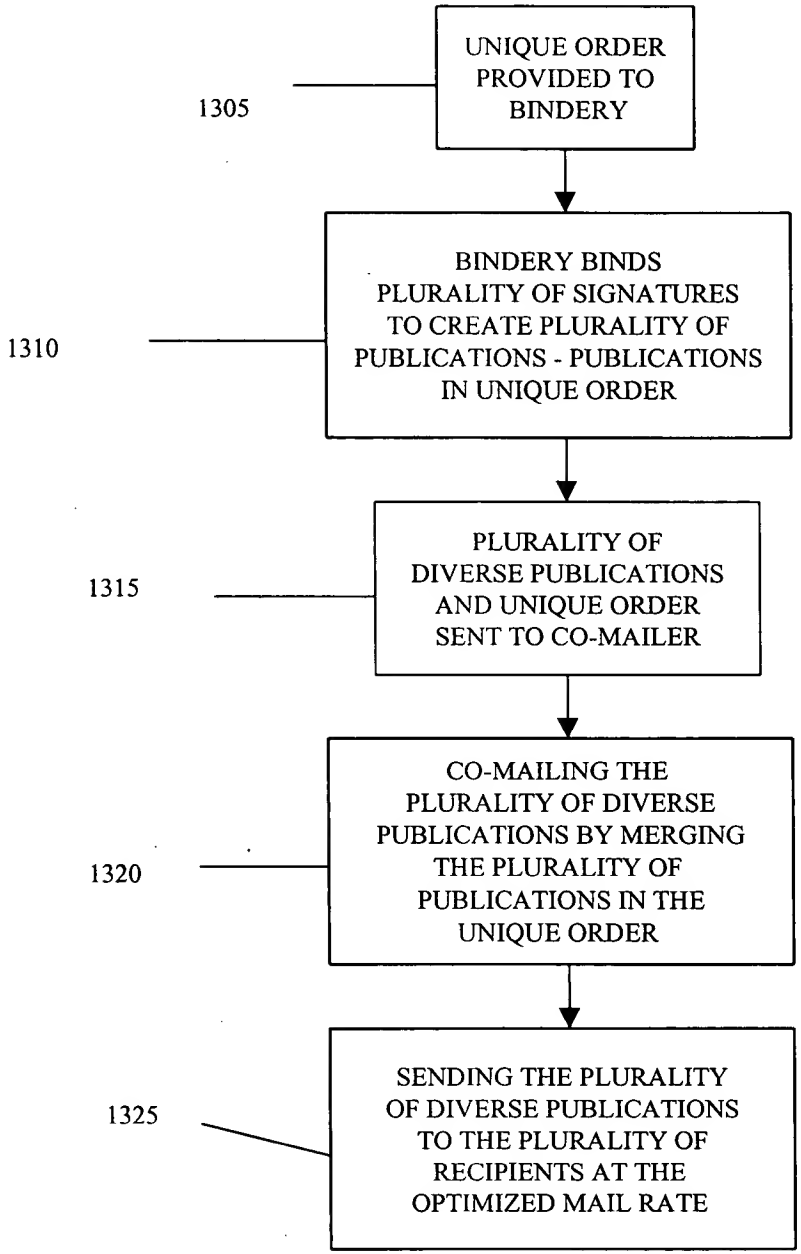

UNIQUE ORDER PROVIDED TO BINDERY
1305
BINDERY BINDS PLURALITY OF SIGNATURES TO CREATE PLURALITY OF PUBLICATIONS - PUBLICATIONS IN UNIQUE ORDER
1310
PLURALITY OF DIVERSE PUBLICATIONS AND UNIQUE ORDER SENT TO CO-MAILER
1315
CO-MAILING THE PLURALITY OF DIVERSE PUBLICATIONS BY MERGING THE PLURALITY OF PUBLICATIONS IN THE UNIQUE ORDER
1320
SENDING THE PLURALITY OF DIVERSE PUBLICATIONS TO THE PLURALITY OF RECIPIENTS AT THE OPTIMIZED MAIL RATE
1325

FIG. 13

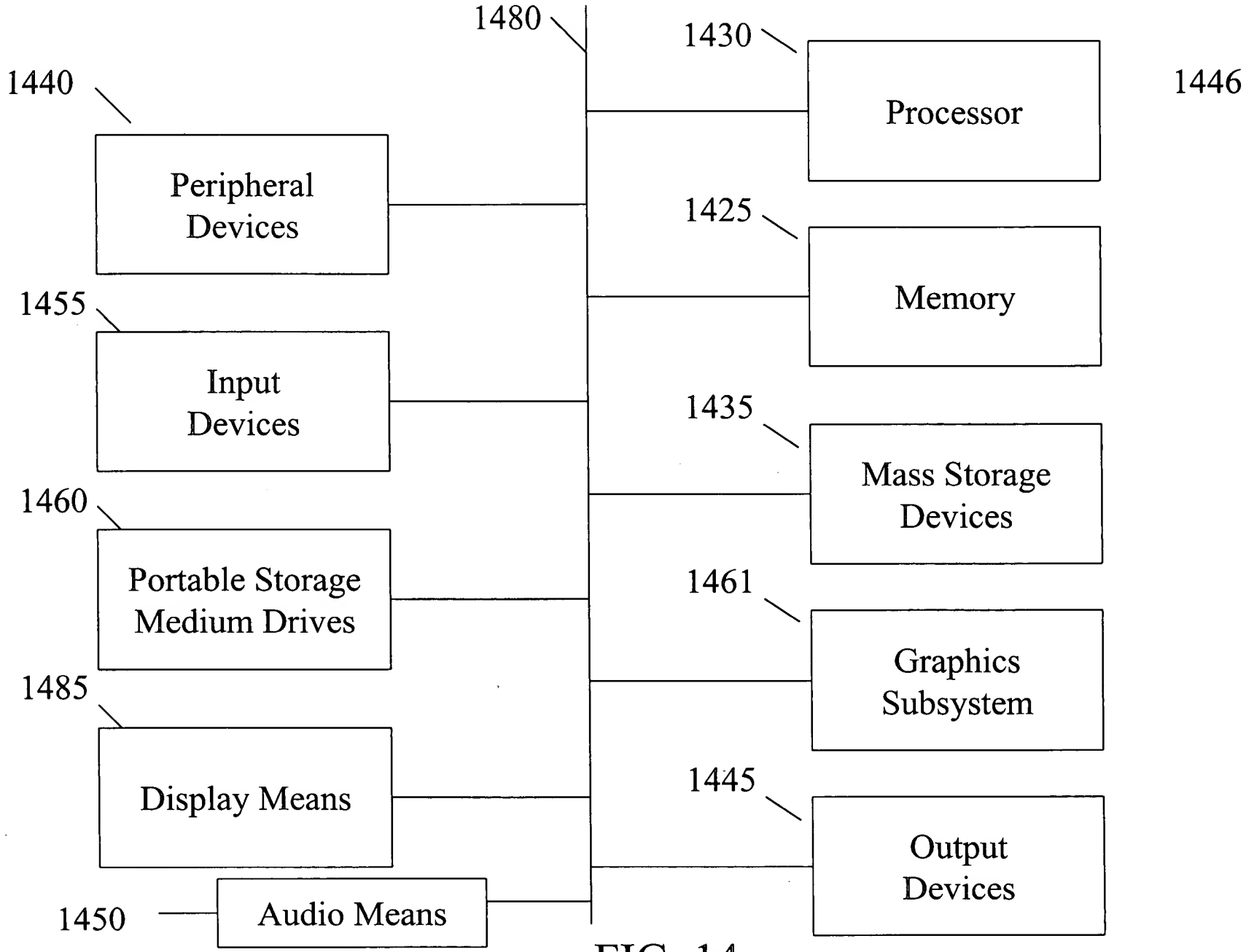

1480
1430
Processor
1446
1440
Peripheral Devices
1425
Memory
1455
Input Devices
1435
Mass Storage Devices
1460
Portable Storage Medium Drives
1461
Graphics Subsystem
1485
Display Means
1445
Output Devices
1450
Audio Means

FIG. 14